

AXIS M4215-V Dome Camera

Varifocal 2 MP dome with deep learning

Featuring Lightfinder and WDR, this compact and discreet dome delivers great image quality in challenging light conditions. A deep learning processing unit (DLPU) lets you take advantage of advanced analytics based on deep learning on the edge. Designed to blend into any environment, it can be repainted and offers a range of accessories for discreet monitoring. Plus, it features an HDMI port and the flexibility to add audio and I/O connectivity using AXIS T61 Series. Furthermore, Axis Edge Vault provides a hardware-based cybersecurity platform that safeguards the device.

- > Great image quality in 2 MP
- > Varifocal lens with remote zoom and focus
- > Lightfinder and WDR
- > Analytics with deep learning
- > HDMI output for public viewing monitors





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Edge storage: recording ongoing, storage disruit large sensor 1/2.8" progressive scan RGB CMOS Health issues detected 1/0: manual trigger, virtual input 1/0: manual trigger, virtual input MOTT: subscribe Scheduled and recurring: schedule Video: average bitrate degradation, day-night Video: average bitrate degradation, day-night MoTT: publish	mode, tampering	
Lens Varifocal, 3.5-6.6 mm, F1.7 - 2.6		
Horizontal field of view: 93°-47° Vertical field of view: 50°-26° Minimum focus distance: 1.5 m (59 in) Day and night Minimum With Lightfinder: Illumination With Lightfinder: Color: 0.14 lux at 50 IRE F1.7 Scheduled and recurring: schedule Video: average bitrate degradation, day-night Event actions Day-night mode MQTT: publish Notification: HTTP, HTTPS, TCP and email Overlay text		
Minimum focus distance: 1.5 m (59 in) Event actions Day and night Automatic IR-cut filter Minimum With Lightfinder: Color: 0.14 lux at 50 IRE F1.7 Overlay text Overlay		
Day and night Automatic IR-cut filter MÓTT: publish Minimum illumination With Lightfinder: Color: 0.14 lux at 50 IRE F1.7 Notification: HTTP, HTTPS, TCP and email Overlay text	for recording or	
Minimum illumination With Lightfinder: Notification: HTTP, HTTPS, TCP and email Overlay text	for recording or	
	for recording or	
	for recording of	
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Shutter speed 1/25000 s to 1/5 s Recordings: SD card and network share Camera angle Pan ±180°, tilt -40 to +65°, rotation ±105° SNMP traps: send, send while the rule is active	a	
adjustment Can be directed in any direction and see the wall/ceiling Upload of images or video clips: FTP, SFTP, HTT		
WDR mode		
Model CV25 Built-in Pixel counter, remote zoom and focus, level gri	id	
Memory 1024 MB RAM, 512 MB Flash installation aids		
Compute Deep learning processing unit (DLPU) capabilities ANIS Objects Out to be a few forms of the control o		
Video AXIS Object Object classes: humans, vehicles (types: cars, bikes)	buses, trucks,	
Video H.264 (MPEG-4 Part 10/AVC) Main and High Profiles Features: line crossing, object in area, occupal	ncy in area ^{BETA} ,	
compression H.265 (MPEG-H Part 2/HEVC) Main Profile time in area ^{BETA} Motion JPEG Up to 10 scenarios Metadata visualized with color-coded boundin	a hoves	
Resolution 1920x1080 to 320x240 Polygon include/exclude areas	g ooxes	
Frame rate Up to 25/30 fps with power line frequency 50/60 Hz in H.264 and H.265 ^a Perspective configuration ONVIF Motion Alarm event	DNVIF Motion Alarm event	
Video streamingMultiple, individually configurable streamsMetadataConfidence, positionAxis Zipstream technology in H.264 and H.265Object data: Classes: humans, faces, vehicles (tynes cars huses	
Controllable frame rate and bandwidth trucks, bikes), license plates	,,,	
VBR/ABR/MBR H.264/H.265 Event data: Producer reference, scenarios, trig	ger conditions	
Multi-view 2 individually cropped out view areas streaming Applications Included AXIS Object Analytics, AXIS Video Motion Det AXIS Face Detector, AXIS Live Privacy Shield, a		
HDMI 1080p (16:9) @25/30 tps (50/60 Hz) alarm HDMI 720p (16:9) @50/60 fps (50/60 Hz) Supported	, ,	
Noise reduction Spatial filter (2D noise reduction) AXIS Camera Application Platform enabling in Temporal filter (3D noise reduction) AXIS Camera Applications, see axis.com/acap	stallation of	
Image settings Compression, color, brightness, sharpness, contrast, white balance, exposure control, motion-adaptive exposure, WDR: up Product markings CSA III/cIII BIS LIKCA CE KC EAC VCCI BC		
to 110 dB depending on scene, text and image overlay, mirroring		
of images, privacy mask Rotation: 0°, 90°, 180°, 270°, including Corridor Format Section 1. Subpart B Class A Section 2. Subpart B Class A Section 2. Subpart B Class A Section 3. Subpart B Class A	032 Class A,	
Pan/Tilt/Zoom Digital PTZ Canada: ICES-3(A)/NMB-3(A)		
Audio Korea: KS C 9835, KS C 9832 Class A Audio features through portcast technology: two-way audio Audio Audio features through portcast technology: two-way audio	2 Class A	
Audio Audio features through portcast technology: two-way audio input/output connectivity, voice enhancer Audio features through portcast technology: two-way audio Japan: VCCI Class A	2 Class //	
Network Safety IEC/EN/UL 62368-1, CAN/CSA C22.2 No. 62366	8-1, IS 13252	
Network protocols IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS, TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP*, Environment IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-2, IEC 60068-2-2, IEC/EN 60529 IP42, IEC/EN 60		
SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, Network NIST SP500-267		
RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCP, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Link-Local address (ZeroConf) Cybersecurity		
System integration Edge security Software: Signed firmware, brute force delay		
Application Open API for software integration, including VAPIX® and SD card encryption	-riain64 256bit	
Programming Interface AXIS Camera Application Platform; specifications at axis.com One-click cloud connection ONVIF® Profile G, M, S and T, specification at onvif.org AXIS Camera Application Platform; specifications at axis.com Hardware: Axis Edge Vault cybersecurity platform; specification at axis.com Secure element (CC EAL 6+), system-on-chip so device ID, secure keystore, signed video, secure	ecurity (TEE), Axis	
Video Compatible with AXIS Companion, AXIS Camera Station, video filesystem (AES-XTS-Plain64 256bit)	- 7 - 7 - 7	
management software from Axis' Application Development systems management software from Axis' Application Development systems Metwork security IEEE 802.1X (EAP-TLS), IEEE 802.1AR, HTTPS/HS Network Time Security (NTS), X.509 Certificate		
Onscreen Privacy masks filtering controls Media clip Privacy masks Filtering Onscreen Privacy masks Filtering AXIS OS Hardening Guide		
Controls Media clip Documentation AXIS OS Hardening Guide Event conditions Application Axis Vulnerability Management Policy		
Device status: above operating temperature, above or below Axis Security Development Model		
operating temperature, below operating temperature, within AXIS OS Software Bill of Material (SBOM) operating temperature, IP address removed, new IP address, To download documents, go to axis.com/suppo	ort/cybersecu-	
network lost, system ready, live stream active rity/resources	,	

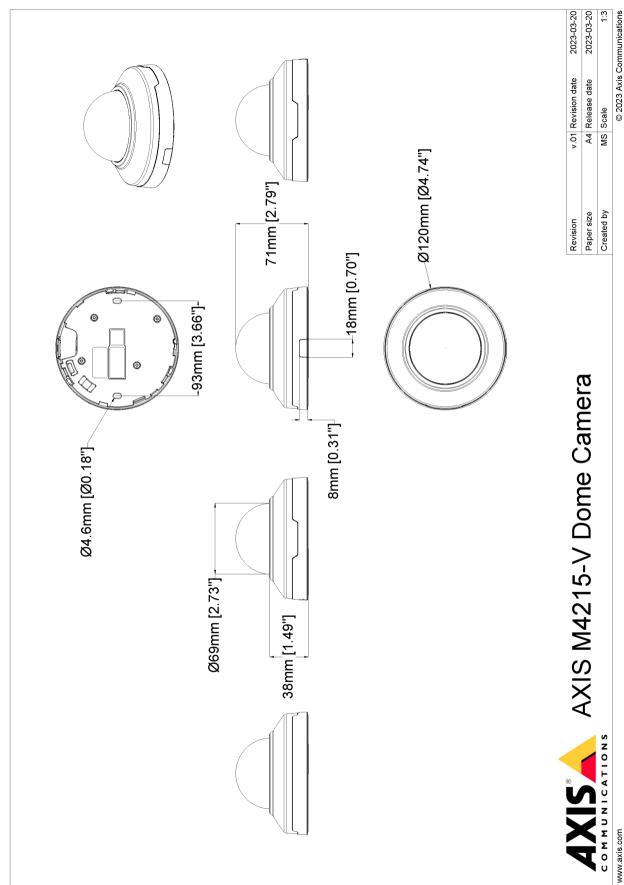
To read more	about Axis	cybersecurity	support,	go	to
axis.com/cvbe	rsecurity				

	uxis.com, cy ocisecum;
General	
Casing	IP42 ingress protection, IK08 impact-resistant, polycarbonate and aluminum casing with hard-coated dome Encapsulated electronics Color: white NCS S 1002-B For repainting instructions of casing and impact on warranty, contact your Axis partner.
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 2 Typical 2.7 W, max 4.4 W
Connectors	RJ45 10BASE-T/100BASE-TX PoE HDMI type D Audio: Audio and I/O connectivity via portcast technology
Storage	Support for microSD/microSDHC/microSDXC card Recording to network-attached storage (NAS) For SD card and recorder recommendations, see <i>axis.com</i>
Operating conditions	0 °C to 45 °C (32 °F to 113 °F) Humidity 10–85% RH (non-condensing)
Storage conditions	-30 °C to 65 °C (-22 °F to 149 °F) Humidity 5–95% RH (non-condensing)
Dimensions	Height: 71 mm (2.8 in) ø 120 mm (4.72 in)
Weight	348 g (0.77 lb)
Box content	Camera, installation guide, owner authentication key, virtual client license for H.264/H.265
Optional accessories	AXIS T8415 Wireless Installation Tool AXIS TM4201 Recessed Mount AXIS TM3207 Recessed Mount AXIS T94C01L Recessed Mount AXIS T94C01U Universal Mount AXIS T94C01M J-Box/Gang Box Plate AXIS M42 Casing A Black 4P AXIS M42 Smoked Dome A 4P AXIS T91A33 Lighting Track Mount

	AXIS T91A23 Tile Grid Ceiling Mount AXIS TM4101 Pendant Kit AXIS TM3101 Pendant Wall Mount AXIS Surveillance Cards For more accessories, go to axis.com/products/axis-m4215-v#accessories
System tools	AXIS Site Designer, AXIS Device Manager, product selector, accessory selector, lens calculator Available at axis.com
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
Warranty	5-year warranty, see axis.com/warranty
Part numbers	Available at axis.com/products/axis-m4215-v#part-numbers
Sustainability	
Substance control	PVC free, BFR/CFR free in accordance with JEDEC/ECA Standard JS709 RoHS in accordance with EU RoHS Directive 2011/65/EU/ and EN 63000:2018 REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see echa.europa.eu
Materials	Renewable carbon-based plastic content: 40.3% (recycled) Screened for conflict minerals in accordance with OECD guidelines To read more about sustainability at Axis, go to axis.com/about-axis/sustainability
Environmental responsibility	axis.com/environmental-responsibility Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org

Reduced frame rate in Motion JPEG
 We recommend a maximum of 3 unique video streams per camera or channel, for optimized user experience, network bandwidth, and storage utilization. A unique video stream can be served to many video clients in the network using multicast or unicast transport method via built-in stream reuse functionality.

Dimension drawing



Detect, Observe, Recognize, Identify (DORI)

	DORI definition	Distance (wide)	Distance (tele)
Detect	25 px/m (8 px/ft)	48.78 m (160.0 ft)	92.23 m (302.5 ft)
Observe	63 px/m (19 px/ft)	19.34 m (63.44 ft)	36.59 m (120.0 ft)
Recognize	125 px/m (38 px/ft)	9.72 m (31.9 ft)	18.43 m (60.45 ft)
Identify	250 px/m (76 px/ft)	4.81 m (15.8 ft)	9.19 m (30.1 ft)

The DORI values are calculated using pixel densities for different use cases as recommended by the EN-62676-4 standard. The calculations use the center of the image as the reference point and consider lens distortion. The possibility to recognize or identify a person or object depends on factors such as object motion, video compression, lighting conditions, and camera focus. Use margins when planning. The pixel density varies across the image, and the calculated values can differ from the distances in the real world.

www.cxis.com T10190795/EN/M3.13/2306

Key features and technologies

AXIS Object Analytics

AXIS Object Analytics is a preinstalled, multifeatured video analytics that detects and classifies humans, vehicles, and types of vehicles. Thanks to Al-based algorithms and behavioral conditions, it analyzes the scene and their spatial behavior within – all tailored to your specific needs. Scalable and edge-based, it requires minimum effort to set up and supports various scenarios running simultaneously.

Axis Edge Vault

Axis Edge Vault is the hardware-based cybersecurity platform that safeguards the Axis device. It offers features to guarantee the device's identity and integrity and to protect your sensitive information from unauthorized access.

Establishing the root of trust starts at the device's boot process. In Axis devices, the hardware-based mechanism secure boot verifies the operating system (AXIS OS) that the device is booting from. AXIS OS, in turn, is cryptographically signed (signed firmware) during the build process. Secure boot and signed firmware tie into each other and ensure that the firmware has not been tampered with during the lifecycle of the device and that the device only boots from authorized firmware. This creates an unbroken chain of cryptographically validated software for the chain of trust that all secure operations depend on.

From a security aspect, the secure keystore is the critical building-block for protecting cryptographic information used for secure communication (IEEE 802.1X, HTTPS, Axis device ID, access control keys etc..) against malicious extraction in the event of a security breach. The secure keystore is provided through a Common Criteria and/or FIPS 140 certified hardware-based cryptographic computing module. Depending on security requirements, an Axis device can have either one or multiple such modules, like

a TPM 2.0 (Trusted Platform Module) or a secure element, and/or a system-on-chip (SoC) embedded Trusted Execution Environment (TEE).

Signed video ensures that video evidence can be verified as untampered without proving the chain of custody of the video file. Each camera uses its unique video signing key, which is securely stored in the secure keystore, to add a signature into the video stream. This allows video to be traced back to the Axis camera from where it originated, so it's possible to verify that the footage has not been tampered with after it left the camera.

To read more about Axis Edge Vault, go to axis.com/solutions/edge-vault.

Lightfinder

The Axis Lightfinder technology delivers high-resolution, full-color video with a minimum of motion blur even in near darkness. Because it strips away noise, Lightfinder makes dark areas in a scene visible and captures details in very low light. Cameras with Lightfinder discern color in low light better than the human eye. In surveillance, color may be the critical factor to identify a person, an object, or a vehicle.

Zipstream

The Axis Zipstream technology preserves all the important forensic in the video stream while lowering bandwidth and storage requirements by an average of 50%. Zipstream also includes three intelligent algorithms, which ensure that relevant forensic information is identified, recorded, and sent in full resolution and frame rate.

For more information, see axis.com/glossary

